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DATE MAILED: 11/18/2010

NOTICE OF ALLOWANCE AND FEE(S) DUE

86110 7590 11/18/2010 Harvard University & Medical School c/o Wolf, Greenfield & Sacks, P.C. 600 Atlantic Avenue

Boston, MA 02210-2206

EXAMINER

SIMONE, CATHERINE A

ART UNIT PAPER NUMBER

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/824,331	04/14/2004	Olivier J. A. Schueller	H0498.70168US01	5408

TITLE OF INVENTION: OPTICAL MODULATOR/DETECTOR BASED ON RECONFIGURABLE DIFFRACTION GRATING

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	02/18/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

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If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE: shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers, Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	NTOR ATTORNEY DOCKET NO. CON		CONFIRMATION NO.		
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APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	S FEE	TOTAL FEE(S) DUE	DATE DUE	
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EXAM	IINER	ART UNIT	CLASS-SUBCLASS					
SIMONE, CA		I783	428-188000					
I. Change of correspondence address or indication of "Fee Address" (37 CFR 1.563). Change of correspondence address (or Change of Correspondence Address form PTOVSB/122) attached. Tee Address' indication (or "Fee Address' Indication form PTOVSB/47; Rev 03-02 or more recent) attached. Use of a Custome Number is required.			2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is stock, no name with pertinct.					
PLEASE NOTE: Uni recordation as set fort (A) NAME OF ASSI	less an assignee is ident h in 37 CFR 3.11. Comp GNEE	ified below, no assignee pletion of this form is NO	THE PATENT (print or typ data will appear on the p IT a substitute for filing an (B) RESIDENCE: (CITY crinted on the patent):	atent. If an assign assignment. and STATE OR C	OUNT	'RY)		
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☐ Publication Fee (No small entity discount permitted) ☐ Payment by credit card. Form PTO-2038 is attached.								
Advance Order -	# of Copies		The Director is hereby overpayment, to Depo	authorized to char sit Account Numbe	ge the	required fee(s), any de (enclose a	ficiency, or credit any n extra copy of this form	1).
	s SMALL ENTITY state	is. See 37 CFR 1.27.	☐ b. Applicant is no lon					
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Authorized Signature				Date				
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



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10/824,331	04/14/2004	Olivier J. A. Schueller	H0498.70168US01	5408
86110	7590 11/18/2010		EXAM	INER
Harvard Univers	sity & Medical Schoo	SIMONE, CA	THERINE A	
c/o Wolf, Greenfi		ART UNIT	PAPER NUMBER	
600 Atlantic Aver Boston, MA 0221		1783		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 283 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 283 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

Application No. Applicant(s) 10/824,331 SCHUELLER ET AL. Notice of Allowability Examiner Art Unit CATHERINE SIMONE 1783

The MAILING DATE of this communication appears on the claims being allowable, PROSECUTION ON THE MERITS IS (OR REMEREWITH (or previously mailed), a Notice of Allowance (PTOL-85) or other a NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. If of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPE	IAINS) CLOSED in this application. If not included appropriate communication will be mailed in due course. THIS his application is subject to withdrawal from issue at the initiative
This communication is responsive to <u>amendment filed 9/1/2010</u> .	
2. ☑ The allowed claim(s) is/are <u>52,54-56 and 64-69</u> .	
Acknowledgment is made of a claim for foreign priority under 35 U. a) All b) Some* o None of the: 1 Certified copies of the priority documents have been rec. 2 Certified copies of the priority documents have been rec. 3 Copies of the certified copies of the priority documents have been rec. 3 Certified copies of the priority documents have been rec. 4 Certified copies of the certified copies of the priority documents have been rec. 5 Certified copies not received:	netived. never in Application No neve been received in this national stage application from the munication to file a reply complying with the requirements is application. In the attached EXAMINER'S AMENDMENT or NOTICE OF (s) why the oath or declaration is deficient. Int Drawing Review (PTO-948) attached nent / Comment or in the Office action of wide to written on the drawings in the front (not the back) of according to 37 CFR 1.121(d).
Attachment(s) Notice of References Cited (PTO-892)	5. Notice of Informal Patent Application 6. Interview Summary (PTO-413), Paper No./Mail Date 7. Examiner's Amendment/Comment 8. Examiner's Statement of Reasons for Allowance 9. Other
CAS/ Catherine A. Simone Examiner, Art Unit 1783	/Jennifer C McNeil/ Supervisory Patent Examiner, Art Unit 1784

Application/Control Number: 10/824,331

Art Unit: 1783

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: Parce et al., U.S.

Patent No. 5,885,470, does not teach or render obvious "a liquid-impermeable seal comprising siloxane bonds", as recited in claim 52. Additionally, Ohman, U.S. Patent No. 5,443,890, fails to teach or render obvious "the entire surface defining the protrusions being of material essentially identical to that of the surface defining the indentations", as recited in claim 52. Furthermore, the Examiner is relying on Applicant's arguments filed 9/1/2010 on pages 4-5, as the basis for allowance.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CATHERINE SIMONE whose telephone number is (571)272-1501. The examiner can normally be reached on Monday-Friday 9:30-6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Sample can be reached on (571) 272-1376. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 1783

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/CAS/ Catherine A. Simone Examiner, Art Unit 1783 November 16, 2010

/Jennifer C McNeil/ Supervisory Patent Examiner, Art Unit 1784